

What is claimed is:

1. A vapor-permeable and water-resistant sheet comprising:

5 a film layer having vapor permeability and water-resistance;

10 a surface protection layer laminated onto one surface of said film layer and made of a spun bonded nonwoven fabric having a basis weight of equal to or more than 20 g/m² and equal to or less than 70 g/m²; and
a reinforcement layer of reticular construction, laminated onto the other surface of said film layer.

15 2. The vapor-permeable and water-resistant sheet according to claim 1, wherein vapor permeability is equal to or more than 1,000 gH₂O/day·m², and water-resistance pressure is equal to or more than 500 cm·H₂O.

20 3. The vapor-permeable and water-resistant sheet according to claim 1, wherein breathability is equal to or more than 30 s/100 ml.

25 4. The vapor-permeable and water-resistant sheet according to claim 1, wherein nail strength is equal to or more than 130 N/10 cm.

5. The vapor-permeable and water-resistant sheet

according to claim 1, wherein tensile strength is equal to or more than 300 N/5 cm.

6. The vapor-permeable and water-resistant sheet
5 according to claim 1, wherein said spun bonded nonwoven fabric comprises constituent fibers, which are made either one of polypropylene or a copolymer of polypropylene and α -olefin.

10 7. The vapor-permeable and water-resistant sheet according to claim 1, wherein said spun bonded nonwoven fabric contains therein a UV absorbent.

15 8. The vapor-permeable and water-resistant sheet according to claim 1, wherein said film layer comprises a polyolefin base porous film having breathability of 30 through 3,000 s/100 ml, vapor permeability of 500 through 20,000 gH₂O/day·m², water-resistance pressure of equal to or more than 500 cm H₂O, the thickness of 10
20 through 200 μ m, and minute pores having average diameter of 0.01 through 50 μ m, and porosity of 10 through 70%.

9. The vapor-permeable and water-resistant sheet
25 according to claim 1, wherein said reinforcement layer comprises polyolefin, copolymer of polyolefin,

polyester, or copolymer of polyester.

10. The vapor-permeable and water-resistant sheet according to claim 1, wherein said reinforcement layer
5 has a thickness of 50 through 300 μm and a basis weight of 13 through 60 g/m^2 .

11. A method of manufacturing a vapor-permeable and water-resistant sheet comprising the steps of:

10 bonding, by compression, a surface protection layer made of spun bonded nonwoven fabric having a basis weight of equal to or more than 20 g/m^2 and equal to or less than 70 g/m^2 , onto one surface of a film layer having vapor permeability and water-resistance; and

15 bonding, by compression, a reinforcement layer of reticular construction onto the other surface of said film layer onto which said spun bonded nonwoven fabric is laminated.

20 12. The method of manufacturing a vapor-permeable and water-resistant sheet according to claim 11, wherein at least the compression bonding of said surface protection layer onto said film layer implemented under a temperature, which does not
25 ,deteriorate vapor permeability and breathability of said film layer.

13. The method of manufacturing a vapor-permeable and water-resistant sheet according to claim 12, wherein said film layer comprises a polyolefin base porous film and said temperature that does not deteriorate the vapor permeability and the breathability of said film layer is equal to or less than 150°C.

10 14. The method of manufacturing a vapor-permeable and water-resistant sheet according to claim 12, wherein the compression bonding of said surface protection layer and said reinforcement layer onto said film layer comprises a ultrasonic compression bonding.

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